

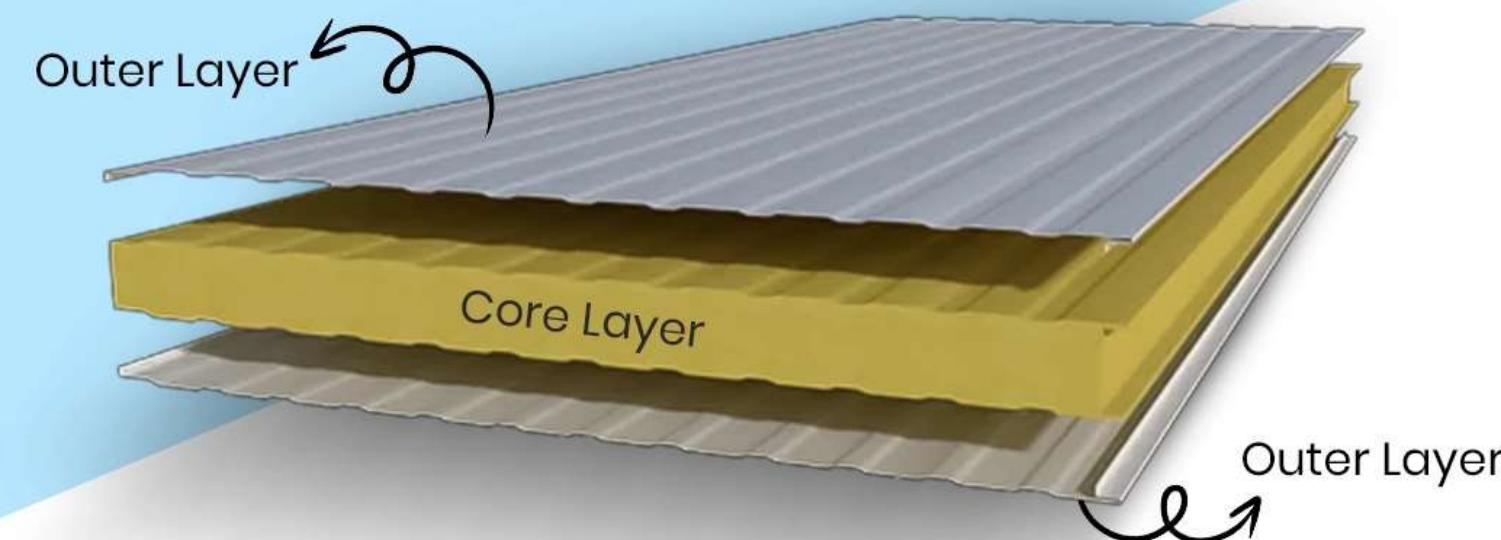


BNAL Prefabs Pvt. Ltd.

INDIA'S LEADING PUF PANEL & PREFABRICATED
STRUCTURE MANUFACTURER

What is a PUF Panel?

PUF Panels



PUF Panel is a **sandwich panel** made by injecting polyurethane foam between two metal sheets. These panels are widely used in modular structures, **PUF panel houses**, cold storages, and other **prefabricated buildings** due to their excellent insulation, light weight, and fast installation.

As a leading **PUF panel manufacturer**, **BNAL Prefabs** offers both quality and innovation under one roof with end-to-end solutions.

Key Features of PUF Panels



- **Superior Thermal Insulation:** Keeps interiors cool in summer and warm in winter.
- **Fire-resistant:** Designed with flame-retardant materials for enhanced safety.
- **Weather-resistant:** Performs well in rain, snow, heat, or coastal areas.
- **Strong & Lightweight:** High structural integrity with reduced dead load.
- **Economical Installation:** Reduces civil work and speeds up project timelines.
- **Eco-Friendly:** Minimizes energy usage in temperature-controlled environments.

PUF Panel Manufacturing Methods

Continuous Line Panel Production

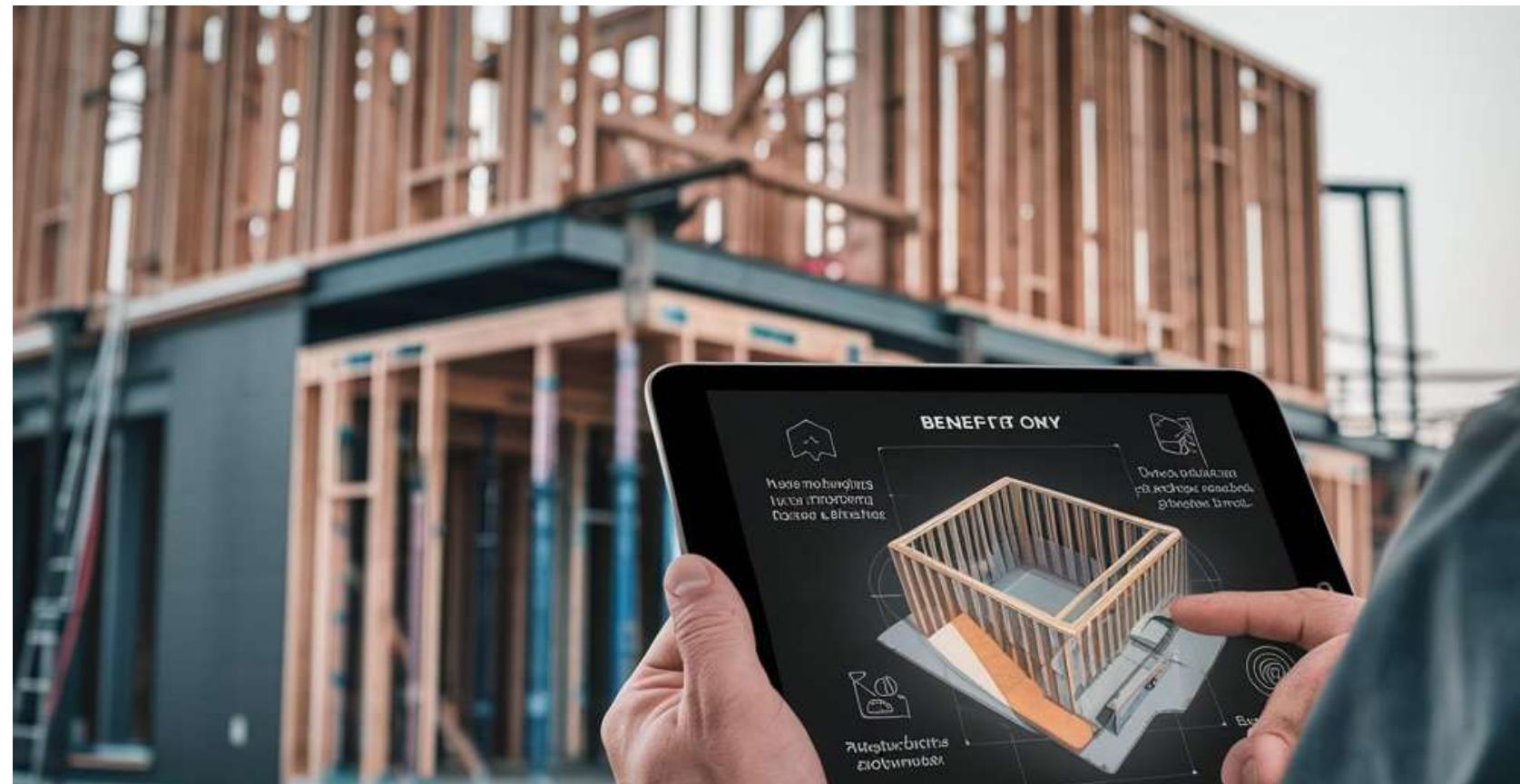
In the Continuous Line Production method, the process is fully automated—metal sheets are fed into a moving line where polyurethane foam is injected, expanded, bonded, cured, and cut with precision. This method is ideal for large-scale operations and is preferred by the **best PUF panel manufacturing companies** due to its speed, consistency, and efficiency.

Discontinuous Panel Production

The Discontinuous Production process is semi-automatic. Here, metal sheets are manually placed in molds, foam is injected, and after curing, the panels are trimmed and finished by hand. This method is typically used by **PUF panel house manufacturers** for low-volume or custom-sized orders. While more flexible, it is slower and less uniform than the continuous process.

What is Prefabricated Structures Building?

Prefabricated Structures



Prefabricated Structures are pre-manufactured buildings or building **Structure** that are produced in a factory setting and then transported to the construction site for quick assembly. These structures are known for their speed, efficiency, and reduced construction waste compared to traditional methods. **BNAL Prefabs Pvt. Ltd.**, one of the **best PUF panel manufacturing companies** and leading **prefabricated houses manufacturers**, specializes in creating high-quality, durable, and cost-effective **prefabricated structures** for various applications across industries.

Prefabricated Structures Manufactured by BNAL Prefabs Pvt. Ltd.



- **Prefabricated Houses** – Quick, cost-effective housing.
- **Guard Houses** – Custom-built, preassembled security cabins.
- **Site Offices & Accommodation** – Portable, reusable staff units.
- **Toll Plazas** – Low-maintenance prefab booths.
- **Portable Bunk Houses** – Eco-friendly workforce housing.
- **Hill Resort Accommodation** – Affordable, scenic stay units.

Advantages of Prefab Structures over Conventional Construction



- **Cost-Effective** – Constructed at a significantly lower cost compared to traditional methods.
- **Fast Construction** – Completed in just 25% of the time taken by conventional buildings.
- **Safe & Durable** – Earthquake-resistant, water-proof, termite-proof, and fire-retardant.
- **Weather Resistant** – Insulated walls and roof provide comfort in extreme summer and winter conditions.
- **Flexible Design** – Can be easily modified or expanded as per future requirements.
- **Portable & Modular** – Easy to relocate, ideal for changing site needs.

What is a Pre-Engineered Buildings ?

Pre-Engineered Buildings



Pre-Engineered Buildings are factory-fabricated, modular steel structures designed to precise engineering standards. These buildings are pre-designed for specific load requirements, manufactured off-site by expert **PEB manufacturers**, and assembled on-site with minimal construction time.

As a result, **PEB steel structures** are widely used in industrial, commercial, and institutional projects due to their cost-effectiveness, durability, and fast delivery

Components of a Pre-Engineered Building Structure



Main Frame (Steel Columns & Rafters)

The backbone of the **PEB building structure**, providing support and stability. Made from high-strength steel, these components are designed to handle structural loads.

Girts

Horizontal beams attached to columns that support wall panels. Essential for wind load resistance and structural integrity in **modular building construction**.

Bracing

Rods or cables placed diagonally to prevent lateral movement, ensuring a stable **pre-engineered building** even in high-wind or seismic zones.



Components of a Pre-Engineered Building Structure



Wall Cladding

Typically made from insulated **sandwich panels**, like **PUF panels**, these protect the **pre-engineered structure** from weather and enhance its aesthetic.

Roof Cladding

Durable, corrosion-resistant panels installed on the roof to protect the building from rain, sun, and other elements.



Downspout Pipe

Channels water from the roof to the ground, preventing waterlogging and structural damage.

Projects completed by BNAL Prefabs Pvt. Ltd.

COLD STORAGE

In the Cold Storage category, BNAL has delivered numerous advanced facilities such as

- **Chhattisgarh** – Maa Sharda Cold and Foods, Raipur Logistics, BMS Cold Store, Shree Radhemani Cold Store, Salasar Foods & Cold Store
- **Haryana** – United Farm Products, Vishnu Cold Store, Om Sai All Seasons, Mehta Fruit Traders, Alliance Agritech
- **Punjab** – Pratham Cold Store, D.S. Agro Products, Ruchika Refrigeration, G.K. Cold Store
- **Uttar Pradesh** – Dayalu Cold Store, Laletma Cold Store, Om Shanti Cold Store, Kuber Refrigeration
- **Jammu & Kashmir** – Gulberg Cold Chain, Shaheen Foods (Banana Ripening)

PRE-ENGINEERED STEEL BUILDINGS

Under Pre-Engineered Steel Building (PEB) projects completed by BNAL Prefabs Pvt. Ltd.

Vadodara (Gujarat)

- Gujarat Automotive Gears Ltd. – Factory Sheds

Himachal Pradesh

- Pankaj Spinners Ltd. – Factory Sheds
- Him Teckoforge Ltd. – Factory Sheds
- Chauhan Enterprises – Warehouse
- Livguard Industries Ltd. – Warehouse

Projects completed by BNAL Prefabs Pvt. Ltd.

PREFABRICATED SHELTERS/HOUSES

Under Prefabricated Shelters and Houses, the company has completed

Chandigarh

- Chandigarh Administration – Housing colony for slum dwellers.
- Chandigarh Administration – Housing colony for rag pickers.
- Chandigarh Administration (Village Sarangpur) – Housing colony for IRB Battalion.

Himachal Pradesh

- HP State Electricity Works, Hatkothi – Housing colony for HP Electricity Board.
- HP State Electricity Works, Chauri – Housing colony for HP Electricity Board.

PREFABRICATED SHELTERS/HOUSES

Under Prefabricated Shelters and Houses, the company has completed

Rajasthan

- Central University of Rajasthan, Ajmer – Prefab classrooms.
- Manda Developers and Builders – 203 prefabricated medical centres across Rajasthan.

Delhi (New Delhi)

- Army College of Medical Sciences – Prefab classrooms.
- Municipal Corporation of Delhi – Classrooms in government schools.

Madhya Pradesh

- CPWD, Bhopal – Housing colony for CRPF.

Contact US



+91 7087238568



enquiry@bnalprefabs.com



<https://www.bnalprefabs.com/>



**164, First Floor, Industrial Area, Phase - I,
chandigarh - 160 002**



Thank You